

RADIAL FORCE DISTRIBUTIONS IN ROCK BITS

Abstract

A method for designing a drill bit in an earth formation, including defining parameters for a simulation of the drill bit drilling in earth formation, where the parameters comprise at least bit design parameters; executing the defined simulation; obtaining radial forces resulting from the executing of the defined simulation; applying a criterion to the obtained radial forces; and adjusting one of the at least bit design parameters in response to the applying of the criteria.

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